#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In	re	Ap	plica	ıtion	of:

Sandhu et al.

Serial No.: Not yet assigned

Filed: August 8, 2003

For: LOW RESISTANCE CONTACT TO SILICON HAVING A TITANIUM SILICIDE INTERFACE AND AN AMORPHOUS TITANIUM CARBONITRIDE BARRIER

LAYER

Examiner: Unknown

Group Art Unit: Unknown

Attorney Docket No.: 2269-3264.5US

(92-0280.08/US)

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Person making Deposit: Matthew Wooton

#### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The present application is a continuation of application Serial No. 09/921,615, filed August 3, 2001, pending, which is a continuation of application Serial No. 09/495,534, filed January 31, 2000, now U.S. patent 6,291,340, issued September 18, 2001, which is a continuation of application Serial No. 09/012,685, filed January 23, 1998, now U.S. Patent 6,081,034, issued June 27, 2000, which is a continuation of application Serial No. 08/509,708, filed July 31, 1995, now U.S. Patent 5,723,382, issued March 3, 1998; which is a continuation-in-part of U.S. application 08/228,795, filed April 15, 1994, now abandoned, which is a continuation of now abandoned U.S. application 07/898,059, filed June 12, 1992.

## Atty. Docket No. 3264.5US (92-0280.08/US)

Pursuant to M.P.E.P. 2001.06(b), the Examiner is respectfully requested to consider the information of record in the prior applications, and to confirm in the first Office Action on the merits that such art has in fact been reviewed. A PTO-1449 or PTO/SB/08 form listing all of the information of record in the prior applications is enclosed herewith.

This Information Disclosure Statement is filed within three (3) months of the filing date of the above-identified application, and no certification pursuant to 37 C.F.R. § 1.97(c) or a fee pursuant to 37 C.F.R. 1.17(p) is required.

Respectfully submitted,

James R. Duzan

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Date: August 8, 2003

JRD/sls:djp

Enclosures: Form PTO-1449 or PTO/SB/08

Document in ProLaw

Sheet 1 of 2

Docket Number (Optional) Application Number Form PTO-1449 3264.5US (92-0280.08/US) Not yet assigned INFORMATION DISCLOSURE CITATION Applicant Sandhu tal. IN AN APPLICATION (Use several sheets if necessary) Filing Date August 8, 2003 Group Art Unit Unkn wn **U.S. PATENT DOCUMENTS** FILING DATE EXAMINER DOCUMENT NUMBER DATE NAME CLASS SUBCLASS IF APPROPRIATE INITIAL 3,637,320 01/1972 Wakefield et al. 3,807,008 04/1974 Reedy 4,035,541 07/1977 Smith et al. 4,497,874 02/1985 Hale 4,830,886 05/1989 Co et al. 4,960,732 10/1990 Dixit et al. 4,990,997 02/1991 Nishida 5,001,531 01/1001 Yamaguchi 5,049,975 09/1991 Ajika et al. 5,087,593 02/1992 Narula 01/1992 5.132.756 Matsuda FOREIGN PATENT DOCUMENTS Translation DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS NO YES 4-87328 06/1992 Japan 4-38875 02/1992 Japan OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Wakefield et al., "Preparation of Titanium Carbonitride From Mono-, Di-, and Tri-Methyl Amines"; 4th International Conference on CVD, Electrochemical Society, 1973, pps. 173-150. Politis et al., "Preparation, Characterization and Superconducting Properties of TiN and TiCxNy Single Crystals Prepared By CVD"; 7th International Conference on CVD, Electrochemical Society, 1979, pps. 289-299. Raaijmakers et al., "Contact Hole Fill with Low Temperature LPCVD TiN", VMIC Conference 6/12-6/13/90, pps. 219-225. DATE CONSIDERED **EXAMINER** 

## Form PTO-1449

# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional) 3264.5US (92-0280.08/US) Application Number

N t yet assign d

Applicant Sandhu et al.

Filing Date August 8, 2003

Group Art Unit Unkn wn

	(Use several sheets II		Filing Date August 8,	Filing Date August 8, 2003		Group Art Unit <b>Unkn wn</b>		
		U.S.	PATENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENTNUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D		
	5,139,825	08/1992	Gordon et al.					
	5,178,911	01/1993	Gordon et al.	<u> </u>		Į		
	5,192,589	03/1993	Sandhu	ļ				
	5,246,881	09/1993	Sandhu et al.					
	5,384,289	01/1995	Westmoreland					
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	5,571,572	11/1996	Sandhu					
	5,723,382	03/1998	Sandhu et al.					
	5,893,758	04/1999	Sandhu et al.					
	6,081,034	06/2000	Sandhu et al.					
	6,291,340	09/2001	Sandhu et al.					
		FOREIG	N PATENT DOCUMENT	S				
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation		
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XAMINER			DATE CONSIDER	ED				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conforman not considered. Include copy of this form with next communication to the applicant.